

Product Specification Sheet

ERT-BC

Printable with resin ribbon (FTA-LH...x...) for foil labels

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**Permanent, top-coated matte silver Chemgard polyester labels
 on roll for thermal transfer printers**

Material Thickness:

	Value (Tolerance)	Unit	Test Method
Facestock	50	micron	ASTM D 3652
Adhesive	24	micron	ASTM D 3652
Liner (glassine)	56	micron	ASTM D 3652

Adhesive (acrylic):

		Value	Unit	Test Method
Shear Strength		50+	hours	FTM 8
Initial Tack		720,0	g/cm ²	ASTM D 2979
Peel Resistance	Stainless Steel	23	N/25 mm	FTM 1 (72 hours)
	Glass	23	N/25 mm	FTM 1 (72 hours)
	Polypropylene	*		
	Paint (automotive)	*		
	PBT	*		
Application Temperature		min. +10	°C	
Temperature Range (Adhesive)		-40 to +125	°C	

*no information provided by the manufacturer

Note: All values are guidelines and not intended for use in setting specifications. The information provided does not constitute any warranty, express or implied, and is intended solely for the recipient and shall not be forwarded to any third party. The buyer of our products shall be solely responsible for independently determining if the product conforms to all requirements of their unique application. Samples of our materials can be provided upon request. Information is subject to change without prior notification. Last Updated: January 2019.

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RICOH B110CU resin ribbon

Mechanical Rub Test (Pressure applied 1kg weight)*

Crockmeter Test Method:

Test equipment Atlas CM-5
 Test finger 25mm Ø acrylic test finger
 Cloth size 50mm x 50mm
 Printed barcodes are left for 24h
 prior to any chemical resistance testing

1. attach 2 cotton cloths to test finger
2. soak with solvent using dropper
3. sample is rubbed back & forwards until print fades (max 100 rubs)
4. solvent is continuously dripped on the image to prevent evaporation (except brake fluid)

Excellent > 100 rubs
 Good up to 70 rubs
 Fair up to 30 rubs
 Moderate up to 20 rubs

	White	Clear	Silver
MEK	Excellent	Excellent	Excellent
IPA	Excellent	Excellent	Excellent
XYLENE	Fair	Fair	Fair
ACETONE	Good	Good	Good
PETROL	Moderate	Moderate	Moderate
B FLUID	Excellent	Excellent	Excellent

Immersion Tests (period of immersion = 10 min)*

Test Method: Samples applied to aluminium plates and placed in glass jar with appropriate solvent. Half of the test plate was immersed to compare results.

Exposure cycle: a) 10 min immersed - b) 30 min removed - 5 cycles where tested in total.

Evaluation: After removing the samples from the solvents (each cycle), rub the wet area with paper clip at moderate pressure. Once the sample is dried (before put back again), observe the exposed area, which WAS NOT rubbed for any change in T/C print appearance.

	CYCLES 1-4	White	Clear	Silver	CYCLE 5	White	Clear	Silver
		B FLUID	No change	No change		No change	No change	No change
DIESEL	No change	No change	No change	No change	No change	No change	No change	No change
MEK	No change	No change	No change	No change	Smudged	Smudged	Smudged	Smudged
PETROL	No change	No change	No change	No change	Damaged	Damaged	Damaged	Damaged

Immersion Tests (period of immersion = 24h)*

	White	Clear	Silver
ACETONE	No change	No change	No change
B FLUID	No change	No change	No change
XYLENE	Damaged (after 20 rubs)	Damaged (after 20 rubs)	Damaged (after 20 rubs)

Blocking Tests: Material was tested for 72h at 71°C with 1Kg weight. The material showed no signs of blocking.

Outdoor resistance: 2 years (Material was tested for 800h (Sol test) and showed no signs of change.)

Heat Age Testing: Please note that this material shows signs of yellowing at temperatures above 120°C after prolonged exposure.

Certifications: Material meets REACH and RoHS requirements (2011/65/EU), UL recognized repackager file no. E484087, certified for USA and Canada ; following ribbon guarantees the UL status: Image Lock 5000/Zebra. IMDS data available.

Printability: Suited for thermal transfer printing with RICOH B110CU resin ribbons. High burn settings in combination with low print speeds are recommended to achieve maximum chemical resistance.

Storage: Material is stable for two years stored at max. 21°C and 50% rel. humidity. Damp conditions, excessive heat and/or cold conditions should be avoided.

Further Information: Expected exterior life dependant on substrate but label material is outdoor resistant for at least 2 years.

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